CLAIMS

What is claimed is:

1	1. An apparatus comprising:			
2	a collector to collect a message intended for an internal peer inside a firewall via a			
3	gateway device at the firewall, the message being transmitted by an external peer outside			
4	the firewall; and			
5	a distributor coupled to the collector to distribute the message to the internal peer.			
1	2. The apparatus of claim 1, further comprising:			
2	a gateway interface to interface internally to the firewall to the gateway device.			
1	3. The apparatus of claim 2, wherein the gateway interface establishes a			
2	continuous connection to a relay server outside the firewall through tunneling.			
1	4. The apparatus of claim 3, wherein the collector registers to the relay server			
2	to act as an external contact point for the external peer.			
1	5. The apparatus of claim 4, further comprising a registrar to register the			
2	internal peer for external communication across the firewall, and wherein the collector			
3	polls the relay server for an incoming message for a registered internal peer using a single			
4	connection.			
1	6. The apparatus of claim 1, wherein the gateway device is one of a firewall			
2	and a network translation address (NAT) device.			
1	7. The apparatus of claim 1, further comprising:			
2	a registrar to register the internal peer for external communication across the			
3	firewall.			
1	8. The apparatus of claim 7, wherein the collector polls the gateway device for			
2	an incoming message for a registered internal peer using a single connection.			

l	9.	The apparatus of claim 7, wherein the collector collects an internal message
2	from a registe	red internal peer to be transmitted to the external peer.

- 1 10. The apparatus of claim 9, wherein the distributor distributes the collected 2 internal message to the external peer via the gateway device.
- 1 11. A method comprising:
- collecting a message intended for an internal peer inside a firewall via a gateway device at the firewall, the message being transmitted by an external peer outside the firewall; and
- 5 distributing the message to the internal peer.
- The method of claim 11, further comprising:
 interfacing internally to the firewall to the gateway device located at the firewall.
- 1 13. The method of claim 12, wherein the interfacing comprises: establishing a continuous connection to a relay server outside the firewall through tunneling.
- 1 14. The method of claim 13, wherein the collecting comprises: registering to 2 the relay server to act as an external contact point for the external peer.
- 1 15. The method of claim 14, further comprising registering the internal peer for external communication across the firewall, and polling the relay server for an incoming message for a registered internal peer using a single connection.
- 1 16. The method of claim 11, wherein the interfacing to the gateway device 2 comprises: interfacing to one of a firewall and a network translation address (NAT) device.
- The method of claim 11, further comprising:
 registering the internal peer for external communication across the firewall.

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1	18. The method of claim 17, wherein the collecting comprises: polling the		
2	gateway device for an incoming message for a registered internal peer using a single		
3	connection.		
1	19. The method of claim 17, wherein the collecting comprises: collecting an		
2	internal message from a registered internal peer to be transmitted to the external peer.		
.1	20. The method of claim 19, wherein the distributing comprises: distributing the		
2	collected internal message to the external peer via the gateway device.		
1	21. A system comprising:		
2	a gateway device located at a firewall; and		
3	an internal contact point located inside the firewall, the internal contact point		
4	comprising:		
5	a collector to collect a message intended for an internal peer inside a		
6	firewall via a gateway device at the firewall, the message being transmitted by an		
7	external peer outside the firewall; and		
8	a distributor coupled to the collector to distribute the message to the interna		
9	peer.		
1	22. The system of claim 21, further comprising:		
2	a gateway interface to interface internally to the firewall to the gateway device.		
1	23. The system of claim 22, wherein the gateway interface establishes a		
2	continuous connection to a relay server outside the firewall through tunneling.		
1	24. The system of claim 23, wherein the collector registers to the relay server to		
2	act as an external contact point for the external peer.		
1	25. The system of claim 24, further comprising a registrar to register the		

internal peer for external communication across the firewall, and wherein the collector

3	polls the relay server for an incoming message for a registered internal peer using a single
4	connection

- 1 26. The system of claim 21, wherein the gateway device is one of a firewall and 2 a network translation address (NAT) device.
- 1 27. The system of claim 21, further comprising:
- 2 a registrar to register the internal peer for external communication across the
- 3 firewall.
- 1 28. The system of claim 27, wherein the collector polls the gateway device for 2 an incoming message for a registered internal peer using a single connection.
- 1 29. The system of claim 27, wherein the collector collects an internal message 2 from a registered internal peer to be transmitted to the external peer.
- 1 30. The system of claim 29, wherein the distributor distributes the collected 2 internal message to the external peer via the gateway device.
- 1 31. A gateway device comprising:
- 2 an internal contact point located inside the firewall, the internal contact point 3 comprising:
- a collector to collect a message intended for an internal peer inside a
- firewall via a gateway device at the firewall, the message being transmitted by an
- 6 external peer outside the firewall; and
- a distributor coupled to the collector to distribute the message to the internal peer.
- 1 32. The system of claim 31, further comprising:
- 2 a gateway interface to interface internally to the firewall to the gateway device.
- 1 33. The system of claim 31, wherein the gateway device is one of a firewall and a network translation address (NAT) device.

- 1 34. The system of claim 31, further comprising:
- 2 a registrar to register the internal peer for external communication across the
- 3 firewall.
- 1 35. The system of claim 31, further comprising: a relay server to interface to a
- 2 number of external peers outside the firewall.